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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/584,063	06/22/2006	Yorihiko Wakayama	2006_0926A	8966	
	7590 05/05/201 , LIND & PONACK L	EXAMINER			
1030 15th Stree Suite 400 East		YANG, ANDREW GUS			
Washington, DC 20005-1503			ART UNIT	PAPER NUMBER	
			2628		
			NOTIFICATION DATE	DELIVERY MODE	
			05/05/2010	ELECTRONIC	

## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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## Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)		
10/584,063	WAKAYAMA, YORIHIKO		
Examiner	Art Unit		

	ANDREW YANG	2628	
The MAILING DATE of this communication appe	ars on the cover sheet with the c	orrespondence add	ress
THE REPLY FILED <u>19 April 2010</u> FAILS TO PLACE THIS APP	LICATION IN CONDITION FOR AL	LOWANCE.	
1.  The reply was filed after a final rejection, but prior to or on application, applicant must timely file one of the following application in condition for allowance; (2) a Notice of Appetor Continued Examination (RCE) in compliance with 37 C periods:	replies: (1) an amendment, affidavit eal (with appeal fee) in compliance v	, or other evidence, whith 37 CFR 41.31; or	hich places the (3) a Request
a) The period for reply expires <u>3</u> months from the mailing date	of the final rejection.		
b) The period for reply expires on: (1) the mailing date of this A no event, however, will the statutory period for reply expire la Examiner Note: If box 1 is checked, check either box (a) or (MONTHS OF THE FINAL REJECTION. See MPEP 706.07(1)	dvisory Action, or (2) the date set forth i ater than SIX MONTHS from the mailing b). ONLY CHECK BOX (b) WHEN THE	date of the final rejection	n.
Extensions of time may be obtained under 37 CFR 1.136(a). The date have been filed is the date for purposes of determining the period of extunder 37 CFR 1.17(a) is calculated from: (1) the expiration date of the set forth in (b) above, if checked. Any reply received by the Office later may reduce any earned patent term adjustment. See 37 CFR 1.704(b). NOTICE OF APPEAL	ension and the corresponding amount of hortened statutory period for reply origin	of the fee. The appropria nally set in the final Office	ate extension fee e action; or (2) as
<ol> <li>The Notice of Appeal was filed on A brief in comp filing the Notice of Appeal (37 CFR 41.37(a)), or any exter Notice of Appeal has been filed, any reply must be filed with AMENDMENTS</li> </ol>	nsion thereof (37 CFR 41.37(e)), to	avoid dismissal of the	
	but prior to the data of filing a brief	will not be entered be	001100
<ol> <li>The proposed amendment(s) filed after a final rejection, k</li> <li>(a) They raise new issues that would require further cor</li> <li>(b) They raise the issue of new matter (see NOTE below)</li> <li>(c) They are not deemed to place the application in bether the contraction of the contraction</li></ol>	nsideration and/or search (see NOT w);	E below);	
appeal; and/or (d) ☐ They present additional claims without canceling a c	corresponding number of finally reje	cted claims.	
NOTE: (See 37 CFR 1.116 and 41.33(a)).		L	TOL 004
<ul> <li>4.  The amendments are not in compliance with 37 CFR 1.12</li> <li>5.  Applicant's reply has overcome the following rejection(s):</li> </ul>		mpliant Amendment (I	PTOL-324).
6. Newly proposed or amended claim(s) would be all non-allowable claim(s).		imely filed amendmer	nt canceling the
7. For purposes of appeal, the proposed amendment(s): a) [ how the new or amended claims would be rejected is prov The status of the claim(s) is (or will be) as follows: Claim(s) allowed:		be entered and an ex	xplanation of
Claim(s) objected to: Claim(s) rejected: <u>1,4-10 and 12-16</u> . Claim(s) withdrawn from consideration: <u>2,3 and 11</u> .			
<ul> <li>AFFIDAVIT OR OTHER EVIDENCE</li> <li>The affidavit or other evidence filed after a final action, but because applicant failed to provide a showing of good and was not earlier presented. See 37 CFR 1.116(e).</li> </ul>			
<ol> <li>The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to o showing a good and sufficient reasons why it is necessary</li> </ol>	vercome <u>all</u> rejections under appea	l and/or appellant fail:	s to provide a
<ol> <li>The affidavit or other evidence is entered. An explanation REQUEST FOR RECONSIDERATION/OTHER</li> </ol>	n of the status of the claims after en	itry is below or attach	ed.
11. The request for reconsideration has been considered but See Continuation Sheet.	does NOT place the application in	condition for allowan	ce because:
<ul><li>12. ☐ Note the attached Information <i>Disclosure Statement</i>(s). (</li><li>13. ☐ Other:</li></ul>	PTO/SB/08) Paper No(s)		
/Ulka Chauhan/ Supervisory Patent Examiner, Art Unit 2628			

9-10.

With respect to claim 1, Dowdell discloses a three-dimensional shape drawing device (column 7, lines 47-58, system in Fig. 3) for drawing a three-dimensional shape using a Z-buffer algorithm, the three-dimensional shape drawing device comprising: a depth value calculation section for calculating a depth value of a pixel to be drawn (column 3, lines 52-54, computer calculates new z-value); a high order Z-buffer memory for retaining high order bits of a depth value of a pixel to be displayed as a front face, the depth value of the pixel to be displayed as the front face being from among depth values calculated by the depth value calculation section (column 4, lines 45-50, most significant bytes from z-buffer memory); a low order Z-buffer memory for retaining low order bits of the depth value of the pixel to be displayed as the front face (column 4, lines 45-50, middle significant and least significant bytes from z-buffer memory), a number of the low order bits retained in the low order Z-buffer memory being equal to or larger than a number of the high order bits retained in the high order Z-buffer memory (column 4, lines 45-50, middle significant bytes and least significant bytes comprise low order bits, which are equal to or greater than the number of high order bits from the most significant byte); a high order bit comparing section for reading the high order bits retained by the high order Z-buffer memory and comparing the read high order bits with high order bits of the depth value calculated by the depth value calculation section (column 4, lines 61-68, column 5, lines 1-14, comparator 114 in Fig. 1 compares old and new z-values); a low order bit comparing section for, when a result of a the comparing performed by the high order bit comparing section indicates that the high order bits of the depth value calculated by the depth value calculation section have a same value as the high order bits of the depth value of the pixel to be displayed as the front face retained by the high order Z-buffer memory, (i) reading the low order bits of the depth value of the pixel to be displayed as the front face and retained by the low order Z-buffer memory and (ii) comparing the read low order bits with low order bits of the depth value calculated by the depth value calculation section (column 5, lines 15-41, comparing lower order bits if high order bits are equal); a record update section for, when the result of the comparing performed by the high order bit comparing section indicates that a depth indicated by the high order bits of the depth value calculated by the depth value calculation section is shallower than a depth indicated by the high order bits of the depth value of the pixel to be displayed as the front face and retained by the high order Zbuffer memory, (i) updating the high order bits of the depth value of the pixel to be displayed s the front face and retained by the high order Z-buffer memory and (ii) the low order bits of the depth value of the pixel to be displayed as the front face and retained by the low order Zbuffer memory, by using the depth value calculated by the depth value calculation section (column 5, lines 5-10, updating the entire 24 bit new z-value), and for, when a result of a comparison performed by the low order bit comparing section indicates that a depth indicated by the low order bits of the depth value calculated by the depth value calculation section is shallower than a depth indicated by the low order bits of the depth value of the pixel to be displayed as the front face and retained by the low order Z-buffer memory, updating the low order bits of the depth value of the pixel to be displayed as the front face and retained by the low order Z-buffer memory by using the depth value calculated by the depth value calculation section (column 5, lines 19-23, column 5, lines 33-36); a pixel value calculation section for calculating a pixel value, which is information about the pixel to be drawn (column 8, lines 59-68, color update unit 314); and an image memory for retaining the pixel value calculated by the pixel value calculation section (column 9, lines 1-3, frame buffer 315), wherein the pixel value calculation section calculates the pixel value when the result of the comparing performed by the high order bit comparing section indicates that the depth indicated by the high order bits of the depth value calculated by the depth value calculation section is shallower than the depth indicated by the high order bits of the depth value of the pixel to be displayed as the front face and retained by the high order Z-buffer memory and when the result of the comparing performed by the low order bit comparing section indicates that the low order bits of the depth value calculated by the depth value calculation section have a same value as the low order bits of the depth value of the pixel to be displayed as the front face and retained by the low order Z-buffer memory (column 8, lines 12-21, as a result of whether or not the new z-value has replaced the old z-value, lines 59-62). By determining whether or not the new z-value has replaced the old z-value, Dowdell discloses calculating the pixel value based on the result of the high order bit and low order bit comparisons. With respect to claim 12, Dowdell discloses the method as excuted by the system of claim 1; see rationale for rejection of claim 1. Claims 9-10 are now rejected under U.S.C. 103(a) in view of Dowdell (U.S. Patent No. 5,301,263) upon entering the amendments to claims

Continuation of 11. does NOT place the application in condition for allowance because: Applicant's arguments are not persuasive. Applicant argues that Dowdell does not disclose or suggest all the features in amended claim 1, which now incorporates features claims 2-3. However, Dowdell discloses the pixel value calculation section calculates the pixel value when the result of the comparing performed by the high order bit comparing section indicates that the depth indicated by the high order bits of the depth value calculated by the depth value calculation section is shallower than the depth indicated by the high order bits of the depth value of the pixel to be displayed as the front face and retained by the high order Z-buffer memory and when the result of the comparing performed by the low order bit comparing section indicates that the low order bits of the depth value calculated by the depth value calculation section have a same value as the low order bits of the depth value of the pixel to be displayed as the front face and retained by the low order Z-buffer memory (column 8, lines 12-21, as a result of whether or not the new z-value has replaced the old z-value, lines 59-62). By determining whether or not the new z-value has replaced the old z-value, Dowdell discloses calculating the pixel value based on the result of the high order bit and low order bit comparisons.